## Abstract

1	A system detects an incoming telephone call and routes the ring signal to a
2	loudspeaker so that it can be heard at a distance from the telephony device. Once
3	the incoming call has been acknowledged the incoming signal is routed to the
4	headset. New incoming calls are identified by verifying the presence of unique
5	characteristics that are found only in incoming calls. In a conventional telephone
6	the unique characteristic can be a combination of frequencies which are part of the
7 ·	ring signal. The frequencies can be verified by using a bandpass filter which allows
8	only frequencies centered around the ring frequency to pass. Therefore, if a signal
9	of correct frequency is present it will pass through the bandpass filter and activate
.0	a switch that routes the signal to the loudspeaker.